Notice of Allowability	Application No.	Applicant(s)
	09/651,519	SAHAI ET AL.
	Examiner	Art Unit
	Quang N. Nguyen	2141
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
 This communication is responsive to the Amendment filed on 05/20/2005. The allowed claim(s) is/are 1-26 and 29. The drawings filed on 30 August 2000 are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All Some* None The drawings filed on 30 August 2000 are accepted by the Examiner. All b) Some* None The drawings filed on 30 August 2000 are accepted by the Examiner. Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: 5.		
each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d). 9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the		
attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
 1 □ Notice of References Cited (PTO-892) 2 □ Notice of Draftperson's Patent Drawing Review (PTO-948) 3 □ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No 	6☐ Interview Summary (F	
4☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8∏ Examiner's Statemen 9∏ Other .	t of Reasons for Allowance

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Examiner's Amendment

1. An Examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment maybe filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

2. Authorization for this Examiner's Amendment was given in a telephone interview

with Mr. Dan C. Hu on January 10th, 2005.

3. Please change claim 1 to:

A method for obtaining information useful for management of a composite e-

service, comprising:

generating a set of management information for each of a set of service

interactions among a set of e-services in [[the]] a composite e-service, the e-services

arranged in a tree structure including a first e-service that provides a portal to the

composite e-service;

in performing the set of service interactions, at least the first e-service

sending a first request to a second e-service at a first lower level of the tree structure.

[[and]] the second e-service sending a second request to a third e-service at a second

lower level of the tree structure lower than the first lower level, and the third e-service

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sending a third request to a fourth e-service at a third lower level of the tree structure lower than the second lower level;

transferring the sets of management information up the tree structure to the <u>first</u> e-service that provides the portal; and

combining the management information at each of a set of levels of the tree structure the first e-service and at the e-services at the first and second lower levels of the tree structure.

4. Please change claim 2 to:

The method of claim 1, further comprising: in performing the set-of service interactions, at least the third e-service sending a response to the second e-service in response to the second request, and the second e-service sending a response to the first e-service in response to the first request.

5. Please change claim 11 to:

A composite e-service comprising a set of e-services arranged in a tree structure including a first e-service that provides a portal to the composite e-service, each e-service having a manager such that the managers generate a set of management information for each of a set of service interactions among the e-services and transfer the sets of management information up the tree structure to the first e-service while combining the management information at each of a set of levels of the tree structure,

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wherein to perform the service interactions, the first e-service to send one or more sends requests to one or more e-services at a first lower level of the tree structure, [[and]] the one or more e-services at the first lower level to send one or more sends requests to one or more e-services at a second lower level in the tree structure lower than the first lower level, and the e-services at the second lower level sends requests to e-services at a third lower level of the tree structure lower than the second lower level,

wherein the first e-service, and e-services at the first and second lower levels are each adapted to combine the management information received from e-services at respective lower levels of the tree structure.

6. Please change claim 21 to:

A system comprising:

a plurality of modules to provide a set of digital services arranged in at least four levels of a tree structure, the digital services comprising at least one of on-line electronic commerce services, on-line news services, on-line sports services, on-line entertainment services, and on-line educational services;

the modules to communicate to enable the digital services to interact,

the modules to generate sets of management information as a result of the interacting of the digital services,

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the modules to transfer the sets of management information up the tree

structure and to combine the management information at each module at least at three

of the four levels as the management information is transferred up the tree structure.

7. Please change claim 29 to:

The composite e-service of claim 11, wherein each of the first e-service and e-

services at the first, [[and]] second, and third lower levels provides at least one of

on-line electronic commerce services, on-line news services, on-line sports services,

on-line entertainment services, and on-line educational services.

8. Please cancel claims 27-28 and 30-31.

9. The following is an examiner's statement of reasons for allowance:

In interpreting the amended claims, in light of the specification and the applicant's

arguments filed on 05/20/2005, the Examiner finds the claimed invention to be

patentably distinct from the prior art of record.

Angal et al. (US 6,064,656), teach a distributed system and method for

controlling access control to network resources, i.e., management objects in a computer

network, wherein at least one of a plurality of access control servers (the management

information server) receives access requests from users and distributes the received

access requests among the access control servers for processing (Angal, Abstract,

C3: L37-62).

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McCollum (US 6,427,168) teaches a method and system for communicating management information via COM (Component Object Model) and/or DCOM (Distributed Component Object Model) by invoking methods of objects over an underlying protocol such as TCP or any suitable interprocess communication mechanism such as XML/CIM over HTTP (McCollum, C5: L5-21).

Hoang (US 6,459,700) teaches multiple segment network device configured for a stacked arrangement, wherein each management information object is accessed or otherwise referenced using a corresponding object identifier "OID" (i.e., an indicator) which comprises a sequence of integers for traversing the successive nodes of the tree structure (Hoang, C22: L40-44).

However, the prior art of record fails to teach or suggest individually or in combination that a communication method and system for decentralizing management of composite digital services, comprising: generating a set of management information for each of service interactions among e-services in a composite e-service arranged in a tree structure including a first e-service that provides a portal to the composite e-service; in performing the service interactions, at least the first e-service sending a first request to a second e-service at a first lower level of the tree structure, the second e-service sending a second request to a third e-service at a second lower level of the tree structure lower than the first lower level, and the third e-service sending a third request to a fourth e-service at a third lower level of the tree structure lower than the second lower level; transferring the sets of management information up the tree structure to the first e-service; and combining the management information at the first e-service and at

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the e-services at the first and second lower levels of the tree structure as set forth in independent claims 1, 11 and 21. Claims 1-26 and 29 are allowed because of the combination of other limitations and the limitation listed above.

The examiner finds the Applicant's arguments on pages 8-11 of the Remarks filed on 05/20/2005 to be persuasive. The applicant argued in substance that the combination of prior art of records fail to disclose the features of the invention including at least the first e-service sending a first request to a second e-service at a first lower level of the tree structure, the second e-service sending a second request to a third eservice at a second lower level of the tree structure lower than the first lower level, and the third e-service sending a third request to a fourth e-service at a third lower level of the tree structure lower than the second lower level; transferring the sets of management information up the tree structure to the first e-service; and combining the management information at the first e-service and at the e-services at the first and second lower levels of the tree structure, as claimed in the invention to enable decentralized management of a composite e-service by obtaining information which is useful for management of the composite e-service even when the arrangement of the composite e-services that make up the composite e-service are dynamically changing (see Remarks, pages 8-11 and see Specification, Summary of the Invention).

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10. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Examiner's Amendment."

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Quang N. Nguyen whose telephone number is (571)

272-3886.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

SPE, Rupal Dharia, can be reached at (571) 272-3880. The fax phone number for the

organization is (571) 273-8300.

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